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Fatigue Properties of Some Coppers and Copper Alloys in Strip Form.—H. L. Burghoff and A. I. Blank, 709. Discussion, 733.

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Quantitative Evaluation of Corrosive Conditions—W. F. Bonwitt and I. Eisen. Published in ASTM BULLETIN, No. 151, March, 1948, p. 84 (TP92); Discussion, published in ASTM BULLETIN, No. 154, October, 1948, p. 44 (TP 202).

Recommendations Affecting Standards for Copper and Copper Alloys, Cast and Wrought. Report of Committee B-5, Appendix, 181.

What's in an Alloy?—John C. Kiszka. Published in ASTM BULLETIN, No. 151, March, 1948, p. 51 (TP59).

Copper-Bearing Steel.

See also **Steel.**

Corrosion of Iron and Steel. Report of Committee A-5, 104.

Field Tests and Inspections of Bare and Metallic Coated Hardware, Structural Shapes, Plates, Bars, and Their Products. Report of Subcommittee XVI, Committee A-5, 119.

Field Tests of Wire and Wire Products. Report of Wire Inspection Committee, Committee, A-5, 114.

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The Action of "Chromic Acid" on Zinc Coatings—D. J. Swaine. Published in ASTM BULLETIN, No. 154, October, 1948, p. 52 (TP210). Discussion, published in ASTM BULLETIN, No. 156, January, 1949, p. 49 (TP11).

Apparatus and Factors in Salt Fog Testing, V. M. Darsey and W. R. Cavanagh. Appendix, Report of Committee B-3, 153.

Atmospheric Durability of Steels Containing Nickel and Copper—Additional Exposure Data—N. B. Pilling and W. A. Wesley, 610.

Corrosion of Iron and Steel. Report of Committee A-5, 104.

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Inspection of Black and Galvanized Sheets. Report of Subcommittee XIV, Committee A-5, 108.

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Quantitative Evaluation of Corrosive Conditions—W. F. Bonwitt and I. Eisen. Published in ASTM BULLETIN, No. 151, March, 1948, p. 84 (TP92); Discussion, published in ASTM BULLETIN, No. 154, October, 1948, p. 44 (TP202).
Requirements of an Engine Antifreeze and Methods of Evaluation—D. H. Green, J. C. Kratzer, P. I. Emch. Published in ASTM BULLETIN, No. 154, October, 1948, p. 57 (TP215); Discussion, p. 65 (TP 223).
Summary Report of Investigations of Aluminum-Base Die-Casting Alloys Containing 9.5 per cent Silicon and 0.5 per cent Magnesium or Containing 8 per cent Magnesium. Appendix, Report of Committee B-6, 191.
A Visual Rating System for Rusted Steel Specimens—Harry L. Faigen. Published in ASTM BULLETIN, No. 154, October, 1948, p. 39 (TP197).

Corrugated Paper.
Load Concentration in Corrugated Paper—J. H. Toulouse and P. J. Barcus. Published in ASTM BULLETIN, No. 152, May, 1948, p. 77 (TP129).

Corrosion-Resisting Steels.
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Field Tests of Wire and Wire Products. Report of Wire Inspection Committee, Committee A-5, 114.
Galvanic and Electrolytic Corrosion. Report of Subcommittee VIII, Committee B-3, 167.
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The Importance of the Time Factor in the Study of Textile Properties—Edward R. Schwarz. Published in ASTM Standards on Textile Materials, October, 1948, p. 485.
Influence of Small Percentages of Silver on the Tensile Strength of Extruded Lead Sheathing—Howard S. Phelps, Frank Kahn, and William P. Magee, 815. Discussion, 825.
The Effect of Small Percentages of Silver and Copper on the Creep Characteristics of Extruded Lead—G. R. Gohn and W. C. Ellis, 801. Discussion, 825.
Tensile, Creep and Fatigue Properties at Elevated Temperatures of Some Magnesium-Base Alloys—John C. McDonald, 737. Discussion, 754.
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Symposium on Cutting Oils. Published in ASTM BULLETIN, No. 151, March, 1948:
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Summary of the Proceedings of the Symposium on Deformation of Metals as Related to Forming and Service, 896.

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Dynamic Calibration Method Uses Modified Proving Ring—R. C. A. Thurston. Published in ASTM BULLETIN, No. 154, October, 1948, p. 50 (TP208).

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An Improved Low-Temperature Brittleness Test—E. F. Smith and G. J. Dienes. Published in ASTM BULLETIN, No. 154, October, 1948, p. 46 (TP204); Discussion, p. 49 (TP207).

Electric Strain Gage.

Measurement and Elimination of Inertia Effects in Textile Testing Equipment by Means of Electric Strain Gages—Herbert F. Schiefer. Published in A.S.T.M. BULLETIN, No. 150, January, 1948, p. 43 (TP15).

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Electrical Insulating Materials. Report of Committee D-9, 402.
Electrical Properties of Plastics—A. J. Warner. Published in ASTM BULLETIN, No. 153, August, 1948, p. 60 (TP152).
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Engine Antifreezes. Report of Committee D-15, 448.
Requirements of an Engine Antifreeze and Methods of Evaluation—D. H. Green, J. C. Kratzer, and P. I. Emch. Published in ASTM BULLETIN, No. 154, October, 1948, p. 57 (TP215); Discussion, p. 65 (TP223).

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Method of Calibrating Extensometers—W. C. Aber and F. M. Howell. Published in ASTM BULLETIN, No. 155, December, 1948, p. 33 (TP241); Discussion, p. 35 (TP243).

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Dynamic Calibration Method Uses Modified Proving Ring—R. C. A. Thurston. Published in ASTM BULLETIN, No. 154, October, 1948, p. 50 (TP208).
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A Versatile Calorimeter for Specific Heat Determinations—Harry Hill and Raymond M. Bell. Published in ASTM BULLETIN, No. 151, March, 1948, p. 88 (TP96).

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Fire Tests of Materials and Construction. Report of Committee E-5, 512.

Flammability.

Symposium on Flammability. Published in ASTM BULLETIN, No. 150, January, 1948:

- Flammability of Textiles for Garment Purposes—Frederic Bonnet, p. 29 (TP1).
- Flameproofing in Theory and Practice—R. W. Little, p. 34 (TP6).
- The Retailer's Viewpoint on the Flammability of Textiles—Charles W. Dorn, p. 36 (TP8).

Flow.

The Use of the Rossi-Peakes Flow Tester in Measuring the Apparent Viscosity of Plastics at Temperatures from 115 to 175 C.—F. E. Piech and W. E. Gloor. Published in ASTM BULLETIN, No. 151, March, 1948, p. 70 (TP78).

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Fungus Resistance of Treated Vegetable Fiber Gaskets—Sigmund Berk. Published in ASTM BULLETIN, No. 150, January, 1948, p. 46 (TP18).

The Effect of Fungi and Humidity on Plastics—John Leutritz, Jr. Published in ASTM BULLETIN, No. 152, May, 1948, p. 88 (TP140).

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Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 151.

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The Action of "Chromic Acid" on Zinc Coatings—D. J. Swaine. Published in ASTM BULLETIN, No. 154, October, 1948, p. 52 (TP210). Discussion, published in ASTM BULLETIN, No. 156, January, 1949, p. 49 (TP11).

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Induction Period Calculator—E. L. Korb. Published in ASTM BULLETIN, No. 153, August, 1948, p. 99 (TP191).

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Automotive Glazing with Plastics—George B. Watkins and Joseph D. Ryan. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).

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The Preparation of Uniform Films and Their Dependence on the Irregularities of the Base Surface—Stig Johanson. Published in ASTM BULLETIN, No. 155, December, 1948, p. 53 (TP261).

Some Fundamentals of Glass Adhesion—Frank Moser. Published in ASTM BULLETIN, No. 150, January, 1948, p. 51 (TP23).

A Versatile Calorimeter for Specific Heat Determinations—Harry Hill and Raymond M. Bell. Published in ASTM BULLETIN, No. 151, March, 1948, p. 88 (TP96).

Glass Textiles.

See also **Textile Materials.**

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The Gloss Measurement of Paint Finishes—Richard S. Hunter. Published in ASTM BULLETIN, No. 150, January, 1948, p. 72 (TP44).

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The Light-Weight Cone for Penetration of Soft Greases—Prepared by L. C. Brunstrum. Published in ASTM Bulletin, No. 154, October, 1948, p. 66 (TP224).
Petroleum Products and Lubricants. Report of Committee D-2, 287. Supplementary Report, 298.
Proposed Method of Measuring the Temperature of Petroleum and Petroleum Products. Appendix X, Report of Committee D-2, 357.
Proposed Method of Test for Performance Characteristics of Wheel Bearing Grease. Appendix I, Report of Committee D-2, 303.
The Thixotropic Characteristics of Lubricating Oil Greases—L. W. McLennan and G. H. Smith. Published in ASTM Bulletin, No. 152, May, 1948, p. 71 (TP123).
Summary of Proceedings of the Symposium on Functional Tests for Ball-Bearing Greases, 1214.
A Worker-Consistometer for Lubricating Greases—S. A. McKee and H. S. White. Published in ASTM Bulletin, No. 153, August, 1948, p. 90 (TP182); Discussion, p. 97 (TP189).

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Change in Hardness of a Metal Bar Under Low Cycles of Reversed and Pulsating Plastic Bending—Harry Majors, Jr. Published in ASTM Bulletin, No. 155, December, 1948, p. 39 (TP247).
A Means of Determining the Hardness of Wood and Modified Woods Over a Broad Specific Gravity Range—Richard C. Weatherwax, E. C. O. Erickson and Alfred J. Stamm. Published in ASTM Bulletin, No. 153, August, 1948, p. 84 (TP176).

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Field Tests and Inspections of Bare and Metallic Coated Hardware, Structural Shapes, Plates, Bars, and Their Products. Report of Subcommittee XVI, Committee A-5, 119.

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A Versatile Calorimeter for Specific Heat Determinations—Harry Hill and Raymond M. Bell. Published in ASTM Bulletin, No. 151, March, 1948, p. 88 (TP96).

Heat Distortion.

A New Interpretation of Heat Distortion Data of Plastics—L. S. Moody and K. B. Goldblum. Published in ASTM Bulletin, No. 150, January, 1948, p. 55 (TP27).

Hiding Power.

A Method for the Routine Determination of Dry Hiding Power of White Paints—F. C. Schmutz and J. M. Gallagher. Published in ASTM Bulletin, No. 153, August, 1948, p. 77 (TP169).

High-Speed Radiography.

Frankford Arsenal Experience with High-Speed Radiography—E. R. Thilo. Published in ASTM Bulletin, No. 150, January, 1948, p. 69 (TP41).
One-Millionth Second Radiography and Its Development—Charles M. Slack and Louis F. Ehrke. Published in ASTM Bulletin, No. 150, January, 1948, p. 59 (TP31).

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- The Effect of Fungi and Humidity on Plastics —John Leutritz, Jr. Published in ASTM BULLETIN, No. 152, May, 1948, p. 88 (TP140).

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- Discussion of Paper on the Ignition Temperature of Rigid Plastics. Published in ASTM BULLETIN, No. 151, March, 1948, p. 66 (TP74).

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- Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 151.

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- Discussion of Paper on the Resistance to Impact Loading of Plastics. Published in ASTM BULLETIN, No. 153, August, 1948, p. 59 (TP151); No. 154, October, 1948, p. 45 (TP203).
- Effect of Fatigue on Tension-Impact Resistance—William H. Hoppmann II. Published in ASTM BULLETIN, No. 155, December, 1948, p. 36 (TP244); Discussion, p. 37 (TP245).
- The Importance of the Time Factor in the Study of the Textile Properties—Edward R. Schwarz. Published in A.S.T.M. Standards on Textile Materials, October, 1948, p. 485.
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Low-Pressure Moldings and Laminates—T. Walter Noble. Published in ASTM BULLETIN, No. 151, March, 1948, p. 77 (TP85).

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The Effect of Small Percentages of Silver and Copper on the Creep Characteristics of Extruded Lead—G. R. Gohn and W. C. Ellis, 801. Discussion, 825.

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Field Tests of Wire and Wire Products. Report of Wire Inspection Committee, Committee A-5, 114.

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Better Lead Scavenging Needed for Aviation Gasoline—E. A. Droegemueller. Published in ASTM BULLETIN, No. 154, October, 1948, p. 53 (TP211).

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Summary of Proceedings of the Symposium on Functional Tests for Ball-Bearing Greases, 1214.

The Thixotropic Characteristics of Lubricating Oil Greases—L. W. McLennan and G. H. Smith. Published in ASTM BULLETIN, No. 152, May, 1948, p. 71 (TP123

A Worker-Consistometer for Lubricating Greases—S. A. McKee and H. S. White. Published in ASTM BULLETIN, No. 153, August, 1948, p. 90 (TP182); Discussion, p. 97 (TP189).

Lucite.

Automotive Glazing with Plastics—George B. Watkins and Joseph D. Ryan. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).

M

Magnesium.

A.S.T.M. Code Systems for Aluminum Alloys and Magnesium Alloys—R. B. Smith. Published in ASTM BULLETIN, No. 151, March, 1948, p. 50 (TP58).

Die-Cast Metals and Alloys. Report of Committee B-6, 187.

The Effect of Speed of Testing on Magnesium-Base Alloys—Symposium on Speed of Testing—A. A. Moore, 1133.

Light Metals and Alloys, Cast and Wrought. Report of Committee B-7, 198.

Metals and Plastics—Robert G. Chollar. Published in ASTM BULLETIN, No. 152, May, 1948, p. 80 (TP132); Discussion, p. 87 (TP139).

Tensile, Creep and Fatigue Properties at Elevated Temperatures of Some Magnesium-Base Alloys—John C. McDonald, 737. Discussion, 754.

Tension Testing of Magnesium Alloy Tubing, A. A. Moore, Appendix, Report of Committee B-7, 205.

What's in an Alloy?—John C. Kiszka. Published in ASTM BULLETIN, No. 151, March, 1948, p. 51 (TP59).

Magnesium Alloy Tubing.

Tension Testing of Magnesium Alloy Tubing—A. A. Moore. Appendix, Report of Committee B-7, 205.

Magnesium Oxychloride Cements.

Magnesium Oxychloride Cements. Report of Committee C-2, 253.

New Type Weighted Needles for Determining the Setting Time of Magnesium Oxychloride Cements—Harry E. Chisholm. Published in ASTM BULLETIN, No. 154 October, 1948, p. 37 (TP195); Discussion, p. 39 (TP197).

Magnesium Sulfate Test.

Effect of Drying Time on Results of Magnesium Sulfate Soundness Tests—Delmar L. Bloem. Published in ASTM BULLETIN, No. 152, May, 1948, p. 76 (TP128); Discussion, No. 153, August, 1948, p. 81 (TP173).

Magnetic Strain Gage.

A Stress-Strain Tester for Textiles Employing a Magnetic Strain Gage—J. W. Ballou. Published in ASTM BULLETIN, No. 150, January, 1948, p. 38 (TP10).

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Testing Surface Waterproofers—F. O. Anderegg. Published in ASTM BULLETIN, No. 156, January, 1949, p. 71 (TP33); Discussion, p. 76 (TP38).

Melting Point.

Summary of Softening Point and Melting Point Methods Used for Testing Rosins and Resins. Report of Subcommittee I, Committee D-17, 457.

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Proposed Method of Test for Sodium in Lubricating Oils and Lubricating Oil Additives. Appendix IX, Report of Committee D-2, 354.

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Discussion of Paper on Measurement of Metal Polish Performance—F. E. Clark and R. C. Adams. Published in ASTM BULLETIN, No. 150, January, 1948, p. 49 (TP21).

Metal Powders.

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Determination of the Air Content of Mortars by the Pressure Method—Thomas G. Taylor. Published in ASTM BULLETIN, No. 155, December, 1948, p. 44 (TP252).
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Abstracts of Papers on Cathode Nickel. Published in ASTM BULLETIN, No. 152, May, 1948:
- A Standard Diode for Radio Tube Cathode-Core-Material Approval Tests—Robert L. McCormack, p. 37.
- Testing Cathode Materials in Factory Production—J. T. Acker, p. 38.
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Electrodeposited Metallic Coatings. Report of Committee B-8, 206.

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Non-Ferrous Metals and Alloys. Report of Committee B-2, 143.

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Plastics as Optical Materials—H. R. Moulton. Published in ASTM BULLETIN, No. 151, March, 1948, p. 75 (TP83).

Organic Reagents.

Abstract of Papers on Organic Reagents for Metal Analysis. Published in ASTM Bulletin, No. 151, March, 1948:
- Organic Reagents for Gravimetric Analysis—John F. Flagg, p. 31.
- The Use of Organic Solvents in Metal Analysis—C. J. Rodden, p. 31.
- Organic Reagents in Colorimetric Analysis—John H. Yoe, p. 32.
- Organic Reagents for Volumetric Analysis—John F. Flagg, p. 32.
- Oxidation-Reduction Indicators—G. Frederick Smith, p. 33.

Oxidation Stability.

Induction Period Calculator—E. L. Korb. Publication in ASTM BULLETIN, No. 153, August, 1948, p. 99 (TP191).

Oxychloride Cement.

Magnesium Oxychloride Cements. Report of Committee C-2, 253.

New Type Weighted Needles for Determining the Setting Time of Magnesium Oxychloride Cements—Harry E. Chisholm. Published in ASTM BULLETIN, No. 154, October, 1948, p. 37 (TP195); Discussion, p. 39 (TP197).

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The Use of Test Track in Developing Good Packaging and Carloading Methods—A. N. Perry. Published in ASTM BULLETIN, No. 155, December, 1948, p. 38 (TP246).

Paint.

Apparatus and Factors in Salt Fog Testing, V. M. Darsey and W. R. Cavanagh. Appendix, Report of Committee B-3, 153.

The Gloss Measurement of Paint Finishes—Richard S. Hunter. Published in ASTM BULLETIN, No. 150, January, 1948, p. 72 (TP44).

Measurement of Transparency of Surface Coatings—J. Gross, R. H. Kienle, L. A. Melsheimer, and E. I. Stearns. Published in ASTM BULLETIN, No. 153, August, 1948, p. 73 (TP165).

Mechanical Operation of the Bird Film Applicator—A. E. Jacobsen and H. S. Jensen. Published in ASTM BULLETIN, No. 151, March, 1948, p. 95 (TP103).

A Method for the Routine Determination of Dry Hiding Power of White Paints—F. C. Schmutz and J. M. Gallagher. Published in ASTM BULLETIN, No. 153. August, 1948, p. 77 (TP169).

Paint—Servant of Industry (condensed version)—W. H. Lutz. Published in ASTM BULLETIN, No. 150, January, 1948, p. 14.

Paint, Varnish, Lacquer, and Related Products.. Report of Committee D-1, 279.

The Preparation of Uniform Films and Their Dependence on the Irregularities of the Base Surface—Stig Johanson. Published in ASTM BULLETIN, No. 155, December, 1948, p. 53 (TP261).

Report on the Evaluation of Surface Treatment of Steel Prior to Painting—Prepared by Arnold J. Eickhoff. Published in ASTM BULLETIN, No. 150, January, 1948, p. 77 (TP49).

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Load Concentration in Corrugated Paper—J. H. Toulouse and P. J. Barcus. Published in ASTM BULLETIN, No. 152, May, 1948, p. 77 (TP129).

Paper and Paper Products. Report of Committee D-6, 395.

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Photoelectric Measurement of a Color Index of Liquid Petroleum Products—Louis Lykken. Published in ASTM BULLETIN, No. 154, October, 1948, p. 68 (TP226).

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Automotive Glazing with Plastics—George B. Watkins and Joseph D. Ryan. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).
Discussion of Paper on the Ignition Temperature of Rigid Plastics. Published in ASTM BULLETIN, No. 151, March, 1948, p. 66 (TP74).

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Discussion of Paper on the Resistance to Impact Loading of Plastics. Published in ASTM BULLETIN, No. 153, August, 1948, p. 59 (TP151); No. 154, October, 1948, p. 45 (TP203).

The Effect of Fungi and Humidity on Plastics—John Leutritz, Jr. Published in ASTM BULLETIN, No. 152, May, 1948, p. 88 (TP140).

Effect of Speed of Test Upon Strength Properties of Plastics—Symposium on Speed of Testing—A. G. H. Dietz, W. J. Gailus, and S. Yurenka, 1160. Discussion, 1187.

The Effect of Temperature on the Creep of two Laminated Plastics as Interpreted by the Hyperbolic-Sine Law and Activation Energy Theory—W. N. Findley, C. H. Adams, and W. J. Worley, 1217.

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Electrical Properties of Plastics—A. J. Warner. Published in ASTM BULLETIN, No. 153, August, 1948, p. 60 (TP152).

An Improved Low-Temperature Brittleness Test—E. F. Smith and G. J. Dienes. Published in ASTM BULLETIN, No. 154, October, 1948, p. 46 (TP204); Discussion, p. 49 (TP207).

An Investigation of the Possibilities of Organic Coatings for the Prevention of Premature Corrosion-Fatigue Failures in Steel—Robert C. McMaster, 628. Discussion, 645.

Low-Pressure Molding and Laminates—T. Walter Noble. Published in ASTM BULLETIN, No. 151, March, 1948, p. 77 (TP85).

The Mechanism of Plasticization in Plastics—J. Kenneth Craver. Published in ASTM BULLETIN, No. 152, May, 1948, p. 90 (TP142); Discussion, p. 92 (TP144).

Metals and Plastics—Robert G. Chollar. Published in ASTM BULLETIN, No. 152, May, 1948, p. 80 (TP132); Discussion, p. 87 (TP139).

A New Interpretation of Heat Distortion Data of Plastics—L. S. Moody and K. B. Goldblum. Published in ASTM BULLETIN, No. 150, January, 1948, p. 55 (TP27).

Plastics as Optical Materials—H. R. Moulton. Published in ASTM BULLETIN, No. 151, March, 1948, p. 75 (TP83).

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Some Factors Affecting Adhesive Bond Formation—H. P. Meissner and E. W. Merrill. Published in ASTM BULLETIN, No. 151, March, 1948, p. 80 (TP88).

Tensile Stress-Strain Relationships of Laminated Plastics for Small Strains—J. J. Lamb and B. M. Axilrod. Published in ASTM BULLETIN, No. 151, March, 1948, p. 59 (TP67).

The Use of the Rossi-Peakes Flow Tester in Measuring the Apparent Viscosity of Plastics at Temperatures from 115 to 175 C.—F. E. Piech and W. E. Gloor. Published in ASTM BULLETIN, No. 151, March, 1948, p. 70 (TP78).

Theories of Adhesion as Applied to the Adhesive Properties of High Polymers—Charles J. Seiler and A. D. McLaren. Published in ASTM BULLETIN, No. 155, December, 1948, p. 50 (TP258).

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Automotive Glazing with Plastics—George B. Watkins and Joseph D. Ryan. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).

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Discussion of Paper on Measurement of Metal Polish Performance—F. E. Clark and R. C. Adams. Published in ASTM BULLETIN, No. 150, January, 1948, p. 49 (TP21).

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Theories of Adhesion as Applied to the Adhesive Properties of High Polymers—Charles J. Seiler and A. D. McLaren.

Published in ASTM BULLETIN, No. 155, December, 1948, p. 50 (TP258).

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Measurement of Transparency of Surface Coatings—J. Gross, R. H. Kienle, L. A. Melsheimer, and E. I. Stearns. Published in ASTM BULLETIN, No. 153, August, 1948, p. 73 (TP165).

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Frankford Arsenal Experience with High-Speed Radiography—E. R. Thilo. Published in ASTM BULLETIN, No. 150, January, 1948, p. 69 (TP41).

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One-Millionth Second Radiography and Its Development—Charles M. Slack and Louis F. Ehrke. Published in ASTM BULLETIN, No. 150, January, 1948, p. 59 (TP31).

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Summary of Softening Point and Melting Point Method Used for Testing Rosins and Resins, Report of Subcommittee I, Committee D-17, 457.

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- The Use of the Rossi-Peakes Flow Tester in Measuring the Apparent Viscosity of Plastics at Temperatures from 115 to 175 C.—F. E. Piech and W. E. Gloor. Published in ASTM BULLETIN, No. 151, March, 1948, p. 70 (TP78).

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- Proposed Method for the Sampling of Steam. Published in ASTM BULLETIN, No. 151, March, 1948, p. 34.

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- Effect of Drying Time on Results of Magnesium Sulfate Soundness Tests—Delmar L. Bloem. Published in ASTM BULLETIN, No. 152, May, 1948, p. 76 (TP128). Discussion, published in ASTM BULLETIN, No. 153, August, 1948, p. 81 (TP173).
- The Spectrochemical Analysis of Cements and Other Mineral Products—M. F. Hasler, C. E. Harvey, and F. W. Barley, Jr., 944. Discussion 959.

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- Service Wearing Tests—E. N. Ditton. Published in ASTM BULLETIN, No. 152, May, 1948, p. 93 (TP145).
- Symposium on Service Experience with Inhibited Turbine Oils. Published in ASTM BULLETIN, No. 152, May, 1948:
  - An Evaluation of Inhibited Turbine Oils Versus Uninhibited Turbine Oils for Turbine Lubrication—M. D. Baker, p. 59 (TP111).
  - Service Experience with Turbine Oils—C. L. Pope and O. V. Sprague, p. 62 (TP114).
  - The Care of the Lubricant and Maintenance of the Lubricating System for Central Station Turbine Equipment—Ernest F. Walsh, p. 64 (TP116).
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Setting Time.

New Type Weighted Needles for Determining the Setting Time of Magnesium Oxychloride Cement—Harry E. Chisholm. Published in ASTM BULLETIN, No. 154, October, 1948, p. 37 (TP195); Discussion, p. 39 (TP197).

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Load Concentration in Corrugated Paper—J. H. Toulouse and P. J. Barcus. Published in ASTM BULLETIN, No. 152, May, 1948, p. 77 (TP129).

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Specific Gravity.

A Means of Determining the Hardness of Wood and Modified Woods Over a Broad Specific Gravity Range—Richard C. Weatherwax, E. C. O. Erickson, and Alfred J. Stamm. Published in ASTM BULLETIN, No. 153, August, 1948, p. 84 (TP176).

Proposed Factors and Tables for Volume Correction and Specific Gravity Conversion of Liquefied Petroleum Gases. Appendix V, Report of Committee D-2, 318.

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Recommendations Affecting Standards on Steel. Appendix, Report of Committee A-1, 95.
Report on the Evaluation of Surface Treatment of Steel Prior to Painting—Prepared by Arnold J. Eickhoff. Published in ASTM BULLETIN, No. 150, January, 1948, p. 77 (TP49).
Some Aspects of the Effect of Metallurgical Structure on Fatigue Strength and Notch-Sensitivity of Steel—T. J. Dolan and C. S. Yen, 664. Discussion, 690.
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A Visual Rating System for Rusted Steel Specimens—Harry L. Faigen. Published in ASTM BULLETIN, No. 154, October, 1948, p. 39 (TP197).

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Proposed Method of Measuring Low-Temperature Stiffening of Rubber and Rubber-Like Materials by the Gehman Torsional Apparatus. Appendix, Report of Committee D-11, 425.

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- Testing Surface Waterproofers—F. O. Anderegg. Published in ASTM BULLETIN, No. 156, January, 1949, p. 71 (TP33); Discussion, p. 76 (TP38).

Symbols.
- Symbols and Nomenclature for Fatigue Testing. Published in ASTM BULLETIN, No. 153, August, 1948, p. 36.

Synthetic Detergents.
- Soaps and Other Detergents. Report of Committee D-12, 431.

Synthetic Fibers.
- Application of Synthetic Fibers, Including Glass, in the Textile Industry (Condensed version)—Rene Bouvet. Published in ASTM BULLETIN, No. 150, January, 1948, p. 20.

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Proposed Method of Measuring Low-Temperature Stiffening of Rubber and Rubber-Like Materials by the Gehman Torsional Apparatus. Appendix, Report of Committee D-11, 425.

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Effect of Fatigue on Tension-Impact Resistance—William H. Hoppmann II. Published in ASTM BULLETIN, No. 155, December, 1948, p. 36 (TP244); Discussion, p. 37 (TP245).

The Effect of Small Percentages of Silver and Copper on the Creep Characteristics of Extruded Lead—G. R. Gohn and W. C. Ellis, 801. Discussion, 825.

The Effect of Speed of Testing on Magnesium Base Alloys—Symposium on Speed of Testing—A. A. Moore, 1133.

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An Improved Low-Temperature Brittleness Tester—E. F. Smith and G. J. Dienes. Published in ASTM BULLETIN, No. 154, October, 1948, p. 46 (TP204); Discussion p. 49 (TP207).

Influence of Small Percentages of Silver on The Tensile Strength of Extruded Lead Sheathing—Howard S. Phelps, Frank Kahn, and William P. Magee, 815. Discussion, 825.

Tensile, Creep and Fatigue Properties at Elevated Temperatures of Some Magnesium-Base Alloys—John C. McDonald, 737. Discussion, 754.

Tensile Stress-Strain Relationships of Laminated Plastics for Small Strains—J. J. Lamb and B. M. Axilrod. Published in ASTM BULLETIN, No. 151, March, 1948, p. 59 (TP67).

Tension Testing of Magnesium Alloy, A. A. Moore. Appendix, Report of Committee B-7, 205.

Testing Speed Limitations for Committee A-1 Specifications for Steel—Symposium on Speed of Testing—Lawford H. Fry, 1130.

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The Use of Test Track in Developing Good Packaging and Carloading Methods—A. N. Perry. Published in ASTM BULLETIN, No. 155, December, 1948, p. 38 (TP246).

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Tetraethyl Lead.

Better Lead Scavenging Needed for Aviation Gasoline—E. A. Droegemueller. Published in ASTM BULLETIN, No. 154, October, 1948, p. 53 (TP211).

Textile Materials.

Application of Synthetic Fibers, Including Glass, in the Textile Industry (Condensed version)—Rene Bouvet. Published in ASTM BULLETIN, No. 150, January, 1948, p. 20.

The Importance of the Time Factor in the Study of Textile Properties—Edward R. Schwarz. Published in A.S.T.M. Standards on Textile Materials, October, 1948, p. 485.

Measurement and Elimination of Inertia Effects in Textile Testing Equipment by Means of Electric Strain Gages—Herbert F. Schiefer. Published in ASTM BULLETIN, No. 150, January, 1948, p. 43 (TP15).

Recommendations Affecting Standards on Textile Materials. Appendix, Report of Committee D-13, 440.

Report of the A.S.T.M. Task Group Studying the Wyzenbeek Precision Wear Test Meter—Seaman J. Tanenhaus and Gerald Winsont. Published in ASTM BULLETIN, No. 154, October, 1948, p. 74 (TP232).

Service Wearing Tests—E. N. Ditton. Published in ASTM BULLETIN, No. 152, May, 1948, p. 93 (TP145).

Some Applications of Stress-Strain Measurements to the Determination of Fiber Properties—Arnold M. Sookne. Published in A.S.T.M. Standards on Textile Materials, October, 1948, p. 498.

The Stress-Strain Diagram as a Tool in Textile Research—Walter J. Hamburger. Published in A.S.T.M. Standards on Textile Materials, October, 1948, p. 491.

A Stress-Strain Tester for Textiles Employing a Magnetic Strain Gage—J. W. Ballou. Published in ASTM BULLETIN, No. 150, January, 1948, p. 38 (TP10).

Symposium on Flammability. Published in ASTM BULLETIN, No. 150, January, 1948:
  Flammability of Textiles for Garment Purposes—Frederic Bonnet, p. 29 (TP1).
  Flameproofing in Theory and Practice—R. W. Little, p. 34 (TP6).
  The Retailer's Viewpoint on the Flammability of Textiles—Charles W. Dorn, p. 36 (TP8).

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A Versatile Calorimeter for Specific Heat Determinations—Harry Hill and Raymond M. Bell. Published in ASTM BULLETIN, No. 151, March, 1948, p. 88 (TP96).

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Electrical-Heating, Resistance, and Related Alloys. Report of Committee B-4, 176.

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The Thixotropic Characteristics of Lubricating Oil Greases—L. W. McLennan and G. H. Smith. Published in ASTM BULLETIN, No. 152, May, 1948, p. 71 (TP123).

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A Review of the Tin Situation, Marshall W. Tuthill. Appendix, Report of Committee B-2, 146.

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Toluene.

Proposed Method of Test for Benzene and Toluene by Ultraviolet Spectrophotometry. Appendix XII, Report of Committee D-2 374.

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Measurement of Transparency of Surface Coatings—J. Gross, R. H. Kienle, L. A. Melsheimer, and E. I. Stearns. Published in ASTM BULLETIN, No. 153, August, 1948, p. 73 (TP165).

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Field Tests and Inspections of Bar and Metallic Coated Hardware, Structural Shapes, Plates, Bars, and Their Products. Report of Subcommittee XVI, Committee A-5, 119.

Turbine Oils.

Symposium on Service Experience with Inhibited Turbine Oils. Published in ASTM BULLETIN, No. 152, May, 1948.
  An Evaluation of Inhibited Turbine Oils Versus Uninhibited Turbine Oils for Turbine Lubrication—M. D. Baker, p. 59 (TP111).
  Service Experience with Turbine Oils—C. L. Pope and O. V. Sprague, p. 62 (TP114).
  The Care of the Lubricant and Maintenance of the Lubricating System for Central Station Turbine Equipment—Ernest F. Walsh, p. 64 (TP116).
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Fungus Resistance of Treated Vegetable Fiber Gaskets—Sigmund Berk. Published in ASTM BULLETIN, No. 150, January, 1948, p. 46 (TP18).

Viscosity.

The Use of the Rossi-Peakes Flow Tester in Measuring the Apparent Viscosity of Plastics at Temperatures from 115 to 175 C.—F. E. Piech and W. E. Gloor. Published in ASTM BULLETIN, No. 151, March, 1948, p. 70 (TP78).

Volume Correction Tables.

Proposed Factors and Tables for Volume Correction and Specific Gravity Conversion of Liquefied Petroleum Gases. Appendix V, Report of Committee D-2, 318.

Volume Determinations.

An Instrument for Determining the Volume and Bulk Density of Granular Materials—William E. Gross and John C. Goshorn. Published in ASTM BULLETIN, No. 151, March, 1948, p. 55 (TP63).
Measurement of Volume Resistivity of Electrically Conducting Rubber-Like Material—R. F. Miller. Published in ASTM BULLETIN, No. 151, March, 1948, p. 91 (TP99).

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Factors in the Resistance of Brick Masonry Walls to Moisture Penetration—C. C. Connor, 1020. Discussion, 1040.
Testing Surface Waterproofers—F. O. Anderegg. Published in ASTM BULLETIN, No. 155, January, 1949, p. 71 (TP33); Discussion, p. 76 (TP38).

Wax Pick Test.

Proposed Method of Wax Pick Test for Surface Strength of Paper. Appendix, Report of Committee D-6, 398.

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Report of the A.S.T.M. Task Group Studying the Wyzenbeek Precision Wear Test Meter—Seaman J. Tanenhaus and Gerald Winston. Published in ASTM BULLETIN, No. 154, October, 1948, p. 74 (TP232).
Service Wearing Tests—E. N. Ditton. Published in ASTM BULLETIN, No. 152, May, 1948, p. 93 (TP145).

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Atmospheric Durability of Steel Containing Nickel and Copper—Additional Exposure Data—N. B. Pilling and W. A. Wesley, 610.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 151.
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Field Tests and Inspections of Bare and Metallic Coated Hardware, Structural Shapes, Plates, Bars, and Their Products. Report of Subcommittee XVI, Committee A-5, 119.
Field Tests of Wire and Wire Products. Report of Wire Inspection Committee, Committee A-5, 114.
Inspection of Black and Galvanized Sheets. Report of Subcommittee XIV, Committee A-5, 108.
Paint, Varnish, Lacquer, and Related Products. Report of Committee D-1, 279.
Summary Report of Investigations of Aluminum-Base Die-Casting Alloys Containing 9.5 per cent Silicon and 0.5 per cent Magnesium or Containing 8 per cent Magnesium Appendix, Report of Committee B-6, 191.

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New Type Weighted Needles for Determining the Setting Time of Magnesium Oxychloride Cements—Harry E. Chisholm. Published in ASTM BULLETIN, No. 154, October, 1948, p. 37 (TP195); Discussion, p. 39 (TP197).

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Filler Metal. Report of Joint Committee, 210.
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Report of Administrative Committee on Standards. Appendix II, Annual Report of the Board of Directors, 69.

Windshields.

Automotive Glazing with Plastics—George B. Watkins and Joseph D. Ryan. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).

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Electrical-Heating, Resistance, and Related Alloys. Report of Committee B-4, 176.

Field Tests of Wire and Wire Products. Report of Wire Inspection Committee, Committee A-5, 114.

Wires for Electrical Conductors. Report of Committee B-1, 138.

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Fire Tests of Materials and Construction. Report of Committee E-5, 512.

A Means of Determining the Hardness of Wood and Modified Woods Over a Broad Specific Gravity Range—Richard C. Weatherwax, E. C. O. Erickson and Alfred J. Stamm. Published in ASTM BULLETIN, No. 153, August, 1948, p. 84 (TP176).

Speed of Testing of Wood: Factors in its Control and Its Effect on Strength—Symposium on Speed of Testing—L. J. Markwardt and J. A. Liska, 1139.

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Change in Hardness of a Metal Bar Under Low Cycles of Reversed and Pulsating Plastic Bending. Published in ASTM BULLETIN, No. 155, December, 1948, p. 39 (TP247).

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Core-Material Approval Tests (condensed version). Published in ASTM Bulletin, No. 152, May, 1948, p. 37.

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A Worker-Consistometer for Lubricating Greases. Published in ASTM Bulletin, No. 153, August, 1948, p. 90 (TP182); Discussion, p. 98 (TP190).

McKinney, D. D.

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Theories of Adhesion as Applied to the Adhesive Properties of High Polymers. Published in ASTM Bulletin, No. 155, December, 1948, p. 50 (TP258).

McLennan, L. W.

The Thixotropic Characteristics of Lubricating Oil Greases. Published in ASTM Bulletin, No. 152, May, 1948, p. 71 (TP123).

McMaster, Robert C.

An Investigation of the Possibilities of Organic Coatings for the Prevention of Premature Corrosion-Fatigue Failures in Steel, 628. Discussion, 645.

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Discussion, published in ASTM Bulletin, 153, August, 1948, p. 81 (TP173).

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Some Factors Affecting Adhesive Bond Formation. Published in ASTM Bulletin, No. 151, March, 1948, p. 80 (TP88).

Melsheimer, L. A.

Measurement of Transparency of Surface Coatings. Published in ASTM Bulletin, No. 163, August, 1948, p. 73 (TP165).

Merrill, E. W.

Some Factors affecting Adhesive Bond Formation. Published in ASTM Bulletin, No. 151, March, 1948, p. 80 (TP88).

Mielenz, R. C.

Petrographic and Mineralogic Characteristics of Aggregates—Summary of Proceedings of the Symposium on Mineral Aggregates, 1128.

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Measurement of Volume Resistivity of Electrically Conducting Rubber-Like Material. Published in ASTM Bulletin, No. 151, March, 1948, p. 91 (TP99).

Misenhelder, P. D.

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Permanent Magnet Testing Methods and Their Validity in Determining Product Performance—Summary of Proceedings of the Symposium on Magnetic Testing, 943.

Moody, L. S.

A New Intrepretation of Heat Distortion Data of Plastics. Published in ASTM Bulletin, No. 150, January, 1948, p. 55 (TP27).

Moore, A. A.

The Effect of Speed of Testing on Magnesium-Base Alloys—Symposium on Speed of Testing, 1133.

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Some Fundamentals of Glass Adhesion. Published in ASTM BULLETIN, No. 150, January, 1948, p. 51 (TP23).

Moulton, H. R.

Plastics as Optical Materials. Published in ASTM BULLETIN, No. 151, March, 1948, p. 75 (TP83).

Muhlenbruch, C. W.

The Effect of Repeated Loading on the Bond-Strength of Concrete—II, 977.
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Tests of 77-Year-Old Wrought Iron (condensed version). Published in ASTM BULLETIN, No. 151, March, 1948, p. 44.

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An Hypothesis for the Determination of Cumulative Damage in Fatigue, 767. Discussion, 800.

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Low-Pressure Moldings and Laminates. Published in ASTM BULLETIN, No. 151, March, 1948, p. 77 (TP85).

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Water-Mixed Cutting Fluids—Symposium on Cutting Oils. Published in ASTM BULLETIN, No. 151, March, 1948, p. 45 (TP53).

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Mineral Aggregates for Bituminous Construction—Summary of Proceedings of the Symposium on Mineral Aggregates, 1128.

Perry, A. N.

The Use of a Test Track in Developing Good Packaging and Carloading Methods. Published in ASTM BULLETIN, No. 155, December, 1948, p. 38 (TP246).

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Influence of Small Percentages of Silver on the Tensile Strength of Extruded Lead Sheathing, 815. Discussion, 837.

Piech, F. E.

The Use of the Rossi-Peakes Flow Tester in Measuring the Apparent Viscosity of Plastics at Temperatures from 115 to 175 C. Published in ASTM BULLETIN, No. 151, March, 1948, p. 70 (TP78).

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Atmospheric Durability of Steels Containing Nickel and Copper—Additional Exposure Data, 610.

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Measurement of Ductility in Sheet Metals—

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Service Experience with Grease—Summary of Proceedings of the Symposium on Functional Tests for Ball-Bearing Greases, 1214.

Service Experience with Turbine Oils Symposium on Service Experience with Inhibited Turbine Oils. Published in ASTM BULLETIN, No. 152, May, 1948, p. 62 (TP114).

Power, George E.

Discussion, published in ASTM BULLETIN, No. 153, August, 1948, p. 64 (TP156).

Prendergast, W. A.

Laboratory Performance Tests for Antifriction Bearing Greases—Summary of Proceedings of the Symposium on Functional Tests for Ball-Bearing Greases, 1214

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Effect of Delayed Mixing of Prebatched Moist Aggregates and Cement on the Strength and Durability of Concrete, 962.

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Grading of Mineral Aggregates for Portland-Cement Concrete and Mortars—Summary of Proceedings of the Symposium on Mineral Aggregates, 1128.

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Sampling of Mineral Aggregates Summary of Proceedings of the Symposium on Mineral Aggregates, 1128.

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Laboratory Performance Tests for Antifriction Bearing Greases—Summary of Proceedings of the Symposium on Functional Tests for Ball-Bearing Grease, 1214.

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The Detection of Corrosive Sulfur Compounds in Mineral Transformer Oil, 1201.

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Cutting Fluids—Symposium on Cutting Oils. Published in ASTM BULLETIN, No. 151, March, 1948, p. 47 (TP55).

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Tests of Ductility in Ship Structure—Summary of Proceedings of the Symposium on Deformation of Metals as Related to Forming and Service, 896.

Ryan, Joseph D.

Automotive Glazing with Plastics. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).

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Notch Bar Tension Tests on Annealed Carbon Steel Specimens of Various Sizes and Contours—Summary of Proceedings of the Symposium on Deformation of Metals as Related to Forming and Service, 896.

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Measurement and Elimination of Inertia Effects in Textile Testing Equipment by Means of Electric Strain Gages. Published in ASTM BULLETIN, No. 150, January, 1948, p. 43 (TP15).

Schmidt, P. L.

Variation of Core Loss and Permeability of Electrical Grade Silicon Sheet Steel—Summary of Proceedings of the Symposium on Magnetic Testing, 943.

Schmutz, F. C.

A Method for the Routine Determination of Dry Hiding Power of White Paints. Published in ASTM BULLETIN, No. 153, August, 1948, p. 77 (TP169).

Schofield, L. B.

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The Importance of the Time Factor in the Study of Textile Properties. Published in A.S.T.M. Standards on Textile Materials, October, 1948, p. 485.

Scott, R. K.

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Theories of Adhesion as Applied to the Adhesive Properties of High Polymers. Published in ASTM BULLETIN, No. 155, December, 1948, p. 50 (TP258).

Setchkin, N. P.

Discussion, published in ASTM BULLETIN, No. 151, March, 1948, p. 66 (TP74).

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One-Millionth Second Radiography and Its Development. Published in ASTM BULLETIN, No. 150, January, 1948, p. 59 (TP31).

Smith, A. A., Jr.

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Smith, B. M.

Testing Magnetic Materials—Summary of Proceedings of the Symposium on Magnetic Testing, 943.

Smith, E. F.

An Improved Low-Temperature Brittleness Test. Published in ASTM BULLETIN, No. 154, October, 1948, p. 46 (TP204).

Smith, G. H.

The Thixotropic Characteristics of Lubricating Oil Greases. Published in ASTM

Bulletin, No. 152, May, 1948, p. 71 (TP123).

Smith, R. B.

A.S.T.M. Code Systems for Aluminum Alloys and Magnesium Alloys. Published in ASTM Bulletin, No. 151, March, 1948, p. 50 (TP58).

Smith, Theodore R.

A Rapid Method of Testing Materials for The Alkali-Aggregate Reaction—Symposium on Reactive Materials in Concrete, 1108.

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Some Applications of Stress-Strain Measurements to the Determination of Fiber Properties. Published in A.S.T.M. Standards on Textile Materials, October, 1948, p. 498.

Sperduto, A.

An Investigation of Radiography in the Range from 0.5 to 2.5 Million Volts. Published in ASTM Bulletin, No. 155, December, 1948, p. 54 (TP262).

Sprague, J. C.

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Service Experience with Turbine Oils—Symposium on Service Experience with Inhibited Turbine Oils. Published in ASTM Bulletin, No. 152, May, 1948, p. 62 (TP114).

Stamm, Alfred J.

A Means of Determining the Hardness of Wood and Modified Woods Over a Broad Specific Gravity Range. Published in ASTM Bulletin, No. 153, August, 1948, p. 84 (TP176).

Stanton, Thomas E.

Correlation of Laboratory Tests with Field Experiences of Excessive Concrete Expansion Induced by a Reaction Between the Cement and Aggregate—Symposium on Reactive Materials in Concrete, 1057. Discussion, 1065.

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Measurement of Transparency of Surface Coatings. Published in ASTM Bulletin, No. 153, August, 1948, p. 73 (TP165).

Stern, R. L.

Discussion, published in ASTM Bulletin, No. 153, August, 1948, p. 64 (TP156).

Sticha, E. A.

Stability of Steels as Affected by Temperature (Project No. 29). Appendix, Report of Joint Committee on Effect of Temperature on the Properties of Metals, 239.

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The Action of "Chromic Acid" on Zinc Coatings. Published in ASTM Bulletin, No. 154, October, 1948, p. 52 (TP210).

Discussion, Published in ASTM Bulletin, No. 156, January, 1949, p. 49 (TP11).

Swayze, M. A.

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Report of the A.S.T.M. Task Group Studying the Wyzenbeek Precision Wear Test Meter. Published in ASTM Bulletin, No. 154, October, 1948, p. 74 (TP232).

Tatnall, F. G.

Discussion, published in ASTM Bulletin No. 155, December, 1948, p. 35 (TP243).

Taylor, Thomas G.

Determination of the Air Content of Mortars by the Pressure Method. Published in

ASTM BULLETIN, No. 155, December 1948, p. 44 (TP252).

Thilo, E. R.

Frankford Arsenal Experience with High-Speed Radiography. Published in ASTM BULLETIN, No. 150, January, 1948, p. 69 (TP41).

Thurston, R. C. A.

Dynamic Calibration Method Uses Modified Proving Ring. Published in ASTM BULLETIN, No. 154, October, 1948, p. 50 (TP208).

Toulouse, J. H.

Load Concentration in Corrugated Paper. Published in ASTM BULLETIN, No. 152, May, 1948, p. 77 (TP129).

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The Care of the Lubricant and Maintenance of the Lubricating System for Central Station Turbine Equipment—Symposium on Service Experience with Inhibited Turbine Oils. Published in ASTM BULLETIN, No. 152, May, 1948, p. 64 (TP116).

Wangelin, D. J.

Correlation of Laboratory Testing of Cutting Fluids With Field Tests—Symposium on Cutting Oils. Published in ASTM BULLETIN, No. 151, March, 1948, p. 48 (TP56).

Warner, A. J.

Electrical Properties of Plastics. Published in ASTM BULLETIN, No. 153, August, 1948, p. 60 (TP152).
Discussion, published in ASTM BULLETIN, No. 153, August, 1948, p. 64 (TP156).

Watkins, George B.

Automotive Glazing with Plastics. Published in ASTM BULLETIN, No. 153, August, 1948, p. 65 (TP157).

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Mineral Aggregates for Low-Cost Roads and Water-Bound Macadams—Summary of Proceedings of the Symposium on Mineral Aggregates, 1128.

Wilson, C. D.

Steam Turbines and Their Lubrication—Symposium on Service Experience with Inhibited Turbine Oils. Published in ASTM BULLETIN, No. 152, March, 1948, p. 66 (TP118).

Winston, Gerald

Report of the A.S.T.M. Task Group Studying the Wyzenbeek Precision Wear Test Meter. Published in ASTM BULLETIN, No. 154, October, 1948, p. 74 (TP232).

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LIST OF SPECIAL TECHNICAL PUBLICATIONS

Since the publication of "The Life and Life Work of Charles B. Dudley" in 1911, the first special publication of the Society, a memorial volume to the first president of A.S.T.M. (1900–1909), the Society has issued many technical books, pamphlets, and charts which have not been included in the *Proceedings*, ASTM BULLETIN, or *Book of A.S.T.M. Standards*. In view of the value of these publications to research workers, engineers, industrialists, and students in specialized fields, on the recommendation of the Administrative Committee on Papers and Publications, these publications have been collected chronologically into an A.S.T.M. Technical Series and given a Special Technical Publication Number. This number can be used in ordering copies.

The Technical Series, a list of which follows, includes all the separate publications issued by A.S.T.M. including those issued jointly with other societies. The Series does not include special publications that are reprints from the *Book of Standards* or *Proceedings*, such as compilations of standards and the several symposiums published in *Proceedings*. The publications in the Technical Series are made available to members at special member prices.

If any members have copies of publications indicated as being out of stock and would be willing to sell them back to the Society we should indeed be pleased to be so advised.

Special Technical Publication Number	Title
†1	The Life and Life Work of Charles B. Dudley (Memorial Volume) (1911).
†2	Selected Standard Specifications for Steel and Steel Products (In English, German, French, and Spanish) (1912).
†3	Reports of the Committee on Preservative Coatings for Structural Materials (1914).
†4	Data Considered by Committee C-1 in Preparing the Standard Specifications and Tests for Portland Cement (First and Second Reports of the Joint Conference on Uniform Methods of Tests and Standard Specifications for Cement) (1919).
†5	Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete (1924).
5-A	Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete, Recommended Practice and Standard Specifications for Concrete and Reinforced Concrete (Published with and without Supplement) (1940).
†6	Annotated Bibliography on Impact Testing (Special Mimeograph pamphlet).
7	The Significance of Tests of Petroleum Products (Reprinted from 1928 Proceedings but included here because it represents the first of a series).
7-A	The Significance of Tests of Petroleum Products (1934).
†8	Glossary of Definitions of Terms Appearing in A.S.T.M. Standards and Tentative Standards (Special Mimeograph pamphlet) (1929).
†9	Abstracts of Articles on Fatigue of Metals Under Repeated Stress Appearing in the Technical Press from July 1, 1928 to June 30, 1929 (1929).
†9-A	Abstracts of Articles on Fatigue of Metals Under Repeated Stress Appearing in the Technical Press from July 1, 1929 to June 30, 1930 (1931).
†10	Symposium on Developments in Automotive Materials (Detroit Regional Meeting, March 19, 1930).
†11	Symposium on Welding (Pittsburgh Regional Meeting, March 18, 1931).
†12	Symposium on Effect of Temperature on Metals (1931).
†13	Symposium on Rubber (Cleveland Regional Meeting, March 2, 1932).
†14	Joint Committee on Test Methods and Forms (1933).
15	A.S.T.M. Manual on Presentation of Data (With Tables of Squares and Square Roots) (1933).
15-A	Second printing — Including Supplements A and B (1937).

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† Out of stock.

Special Technical Publication Number	Title
15-B	Third printing (1940).
†16	Symposium on Motor Lubricants (New York Regional Meeting, March 8, 1933).
†17	Symposium on the Outdoor Weathering of Metals and Metallic Coatings (Washington Regional Meeting, March 7, 1934).
†18	Symposium on Paint and Paint Materials (Philadelphia Regional Meeting, March 6, 1935).
†19	Discussion on the Significance of "Yield Strength" of Metals in Design and Specifications (Mimeographed) (1935).
20	Symposium on the Place of Materials in Automobile Roads and Rides (1935).
†21	The Role of Materials in Modern Housing (1935).
22	Report on Significance of Tests of Concrete and Concrete Aggregates (1935).
†22-A	Report on Significance of Tests of Concrete and Concrete Aggregates (Second Edition) (1943).
†23	Symposium on Industrial Fuels (1936).
24	Symposium on High-Strength Constructional Metals (Pittsburgh Regional Meeting, March 4, 1936).
†25	Symposium on Pearlitic Malleable Cast Iron (1936).
†26	Data on Nominal Creep Strength of Steels at Elevated Temperatures (1936).
27	Proposed Methods of Analysis of Industrial Waters (1936).
†28	Symposium on Radiography and X-ray Diffraction (1936).
28-A	Symposium on Radiography (1943).
29	Symposium on Lubricants (Chicago Regional Meeting, March 3, 1937).
†30	Symposium on Wear of Metals (1937).
31	Viscosity-Temperature Charts (1937).
†32	Symposium on Corrosion Testing Procedures (1937).
33	Symposium on Correlation Between Accelerated Laboratory Tests and Service Tests on Protective and Decorative Coatings (1937).
†34	Symposium on Consistency (1937).
†35	Symposium on Plastics (Rochester Regional Meeting, March 9, 1938).
†36	Symposium on Protecting Metals Against Corrosion (1938).
37	Compilation of Available High-Temperature Creep Characteristics of Metals and Alloys (1938).
†38	Standard Specifications for Gypsum Plastering (Published Jointly with the American Institute of Architects) (1938).
39	Symposium on Thermal Insulating Materials (Columbus Regional Meeting, March 8, 1939).
40	Symposium on Lime (Columbus Regional Meeting, March 8, 1939).
41	Index to the Literature on Spectrochemical Analysis 1920–1937 (1939).
41-A	Index to the Literature on Spectrochemical Analysis 1920–1939 (1941).
41-B	Index to the Literature on Spectrochemical Analysis, Part II, 1940–1945 (1947).
42	Viscosity Index Tables (1940).
43	Conversion Tables for Kinematic and Saybolt Universal Viscosities (1940).
44	Symposium on New Materials in Transportation (Detroit Spring Meeting, March 6, 1940).
45	Evaluation of Petroleum Products (1940).
†46	Topical Discussion on Radiographic Testing of Airplane Components (1941).
†47	Impact Resistance and Tensile Properties of Metals at Subatmospheric Temperatures. Prepared by H. W. Gillett (1941).
48	X-ray Diffraction Data Cards for Chemical Analysis (1941) Index, 1941. Second Index, 1945.
48-A	Supplementary X-ray Diffraction Cards (1944). Index, 1945.
49	Cotton Yarn Appearance Standards (1941).
50	Symposium on Color (Washington Spring Meeting, March 5, 1941).
51	Symposium on New Methods for Particle Size Determination in the Subsieve Range (Washington Spring Meeting, March 4, 1941).
52	Tables of Data on Chemical Composition, Physical and Mechanical Properties of Wrought Corrosion-Resisting and Heat-Resisting Chromium and Chromium-Nickel Steels (1942).
53	Hardenability of Steel (Chart) (1943).
53-A	Hardenability of Steel (Chart) (1946).

Special Technical Publication Number	Title
54	Symposium on Paint (Buffalo Spring Meeting, March 3, 1943).
55	Symposium on Powder Metallurgy (Buffalo Spring Meeting, March 3, 1943).
56	Bibliography and Abstracts on Electrical Contacts (1943).
56-A	1944 Supplement to the Bibliography and Abstracts on Electrical Contacts.
56-B	1945 Supplement to the Bibliography and Abstracts on Electrical Contacts.
56-C	1946 Supplement to the Bibliography and Abstracts on Electrical Contacts (1946).
56-D	1947 Supplement to the Bibliography and Abstracts on Electrical Contacts (1947).
†57	Symposium on Mildew Resistance (1943).
58	Report on Standard Samples for Spectrographic Analysis by W. R. Brode and B. F. Scribner (1944).
58-A	Report on Standard Samples for Spectrochemical Analysis, Compiled by E-2, Sub. IV (1947).
59	Symposium on Plastics (1944).
60	Paper and Paperboard, Characteristics, Nomenclature, and Significance of Tests (1944).
61	Symposium on the Applications of Synthetic Rubbers (1944).
62	Symposium on Magnetic Particle Testing (1945).
63	Report on Behavior of Ferritic Steels at Low Temperatures by H. W. Gillett and Francis T. McGuire (Part I text, Part II Illustrations) (1945).
64	Symposium on Stress-Corrosion Cracking of Metals (Published Jointly with the American Institute of Mining and Metallurgical Engineers) (1945).
65	Symposium on Adhesives (1946).
66	Discussion on Statistical Quality Control in Its Application to Specification Requirements (Pittsburgh Spring Meeting, February 26, 1946).
67	Symposium on Atmospheric Exposure Tests on Non-Ferrous Metals (Pittsburgh Spring Meeting, February 26, 1946).
68	Symposium on Materials for Gas Turbines (1946).
69	Symposium on Oil Procurement Practices (1946).
70	Symposium on Bearings (1947).
71	Forum on Diesel Fuel Oils (1947).
72	Symposium on Testing of Parts and Assemblies (1947).
73	Symposium on pH Measurement (1947).
74	Symposium on Rubber Testing (1947).
75	Symposium on Paint and Paint Materials (1947).
76	Symposium on Spectroscopic Light Sources (1947).
77	Symposium on Synthetic Lubricants (1947).
78	Symposium on Effects of Low Temperature on Materials (1947).
79	Symposium on Load Tests of Bearing Capacity of Soils (1947).
80	Number assigned but not used.
81	Petroleum Products as Related to Automotive Equipment (1947).
82	Forum on Tractor Fuels (1948).
83	Symposium on Mineral Aggregates (1948).
84	Symposium on Functional Tests For Ball-Bearing Greases (1948).
85	Symposium on Magnetic Testing (1948).
86	Symposium on Metallography in Color (1948).
87	Symposium on Deformation of Metals as related to Forming and Service (1948).